

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV030119\  
 Data File : VV009462.D  
 Acq On : 01 Mar 2019 18:24  
 Operator : SY/MD  
 Sample : K1660-10  
 Misc : 25ML/MSVOA V/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 02 01:48:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR022819WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Mar 02 00:06:51 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 85594    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 83868    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 39200    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 20585    | 4.61     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 92.20%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 19886    | 4.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 98.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 42662    | 3.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 75.40%  |
| 20) 2-Butanone-d5              | 3.96   | 46    | 46853    | 55.26    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 110.52% |
| 24) Chloroform-d               | 4.40   | 84    | 43628    | 4.98     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 99.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 22668    | 5.25     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 105.00% |
| 32) Benzene-d6                 | 5.10   | 84    | 89955    | 5.04     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 100.80% |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 27222    | 5.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 100.40% |
| 41) Toluene-d8                 | 7.36   | 98    | 89070    | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.80%  |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 10958    | 4.56     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 91.20%  |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 43866    | 56.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 112.68% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 21668    | 5.14     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 102.80% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 32757    | 5.20     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 104.00% |

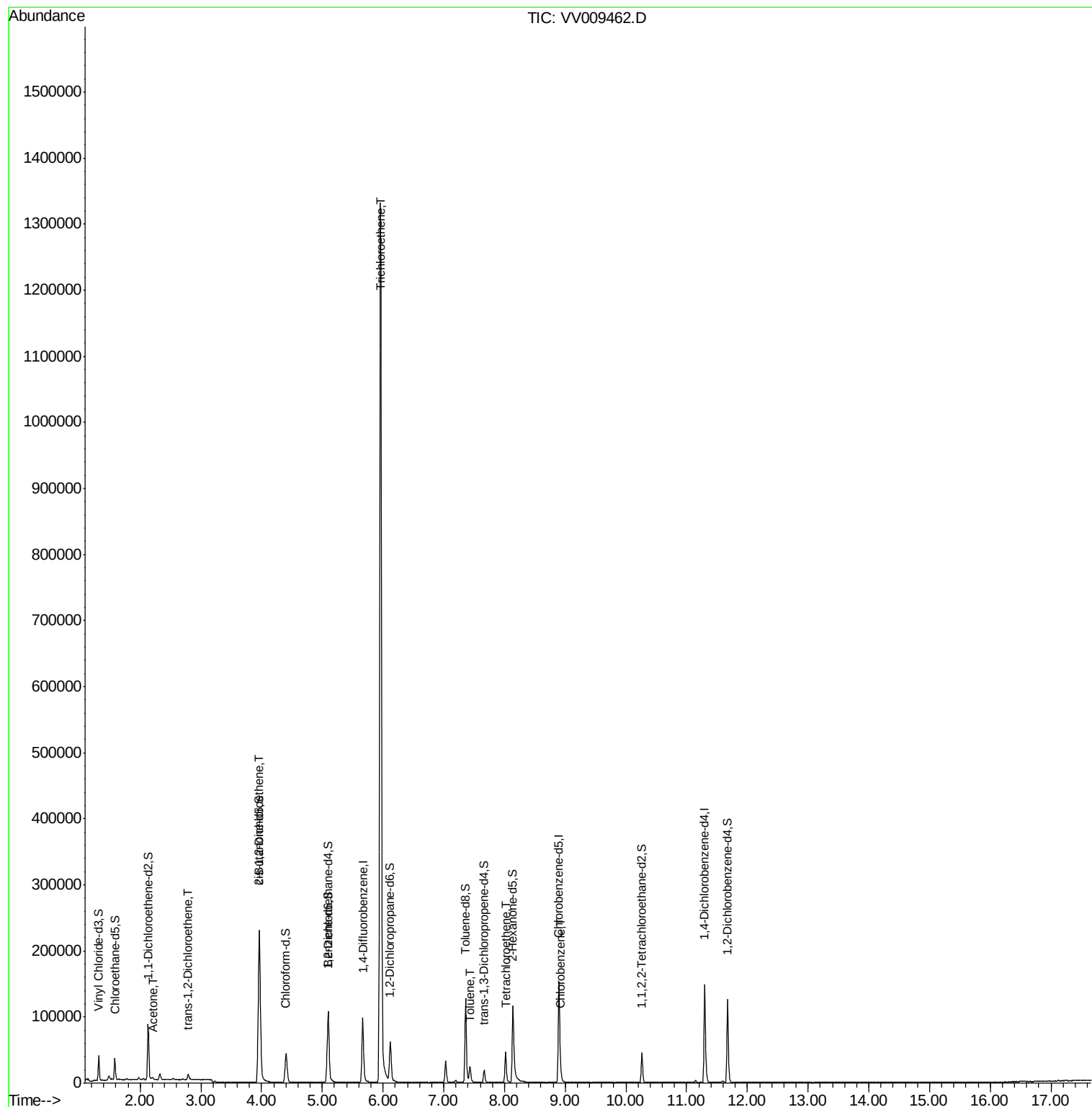
## Target Compounds

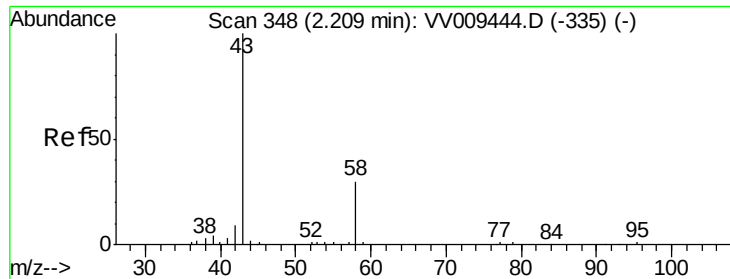
|                              |      |     |        |             | Ovalue |
|------------------------------|------|-----|--------|-------------|--------|
| 13) Acetone                  | 2.20 | 43  | 3136   | 3.894 ug/L  | 99     |
| 18) trans-1,2-Dichloroethene | 2.79 | 96  | 2460   | 0.405 ug/L  | 99     |
| 22) cis-1,2-Dichloroethene   | 3.96 | 96  | 112495 | 19.832 ug/L | 96     |
| 34) Trichloroethene          | 5.96 | 95  | 459930 | 74.717 ug/L | 96     |
| 42) Toluene                  | 7.43 | 91  | 17430  | 0.702 ug/L  | 96     |
| 47) Tetrachloroethene        | 8.02 | 164 | 9578   | 1.982 ug/L  | 91     |
| 51) Chlorobenzene            | 8.93 | 112 | 5988   | 0.370 ug/L  | 97     |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 3.894 ug/L

RT: 2.20 min Scan# 344

Delta R.T. -0.01 min

Lab File: VV009462.D

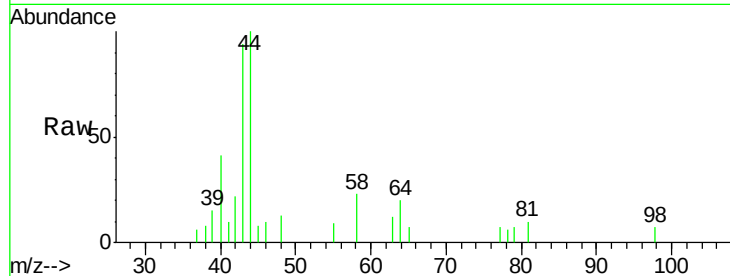
Acq: 01 Mar 2019 18:24

Tot Ion: 43 Resp: 3136

Ion Ratio Lower Upper

43 100

58 30.7 0.0 62.0



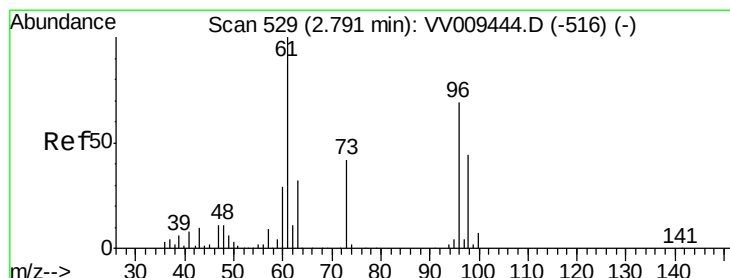
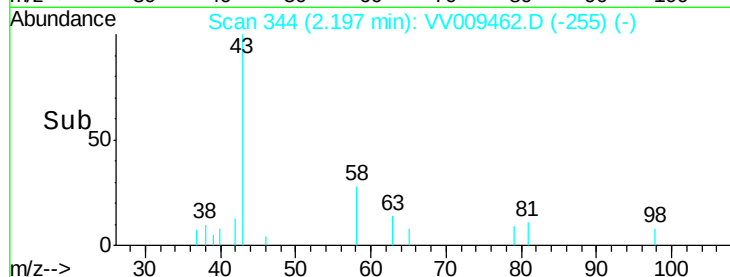
Abundance Ion 43.05 (42.75 to 43.75): VV009444.D (-335) (-)

Ion 58.05 (57.75 to 58.75): VV009444.D (-335) (-)

2.20

2.25

Time-->



#18

trans-1,2-Dichloroethene

Concen: 0.405 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.00 min

Lab File: VV009462.D

Acq: 01 Mar 2019 18:24

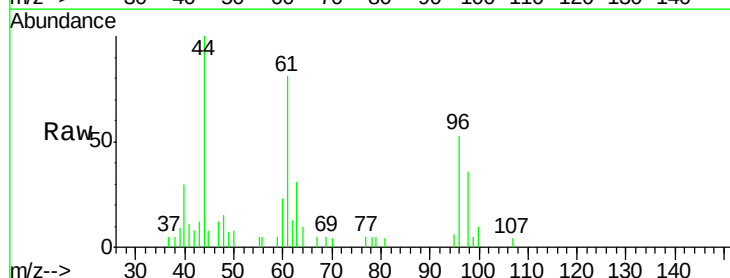
Tgt Ion: 96 Resp: 2460

Ion Ratio Lower Upper

96 100

61 153.1 106.0 196.8

98 69.0 48.2 89.4



Abundance Ion 96.00 (95.70 to 96.70): VV009444.D (-516) (-)

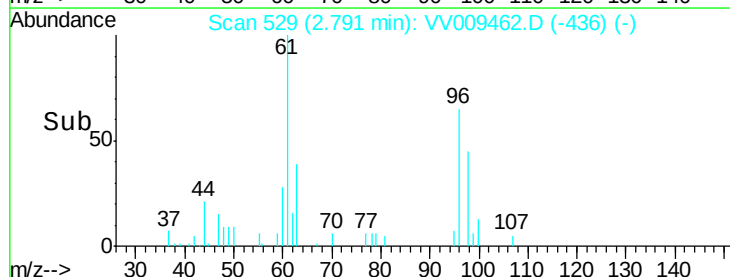
Ion 61.05 (60.75 to 61.75): VV009444.D (-516) (-)

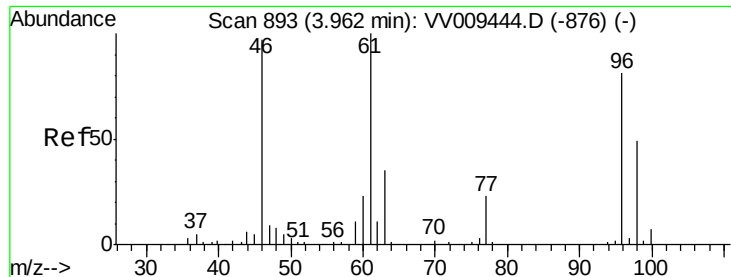
Ion 97.95 (97.65 to 98.65): VV009444.D (-516) (-)

2.79

2.80

Time-->

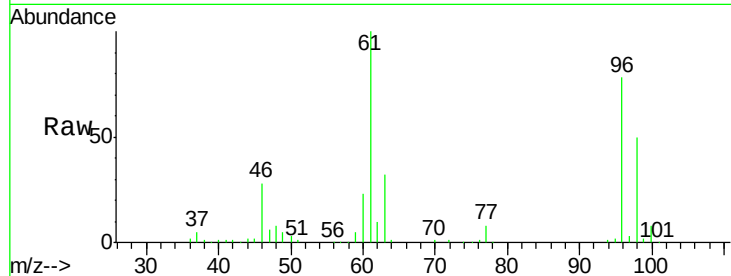




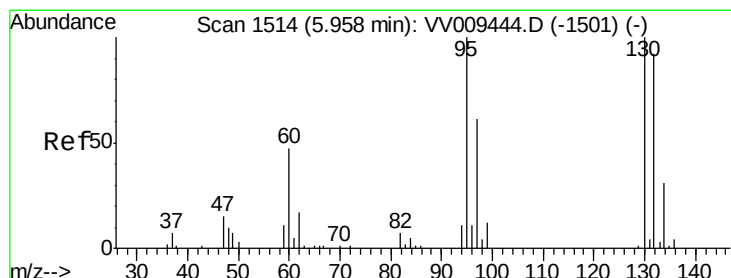
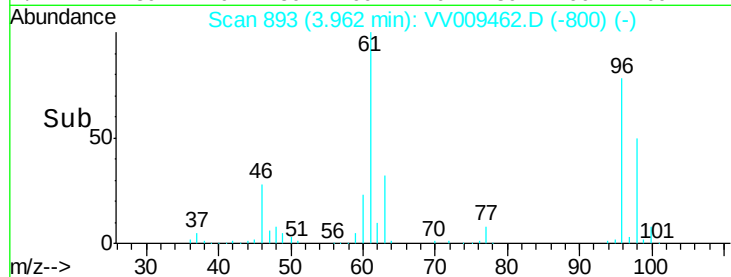
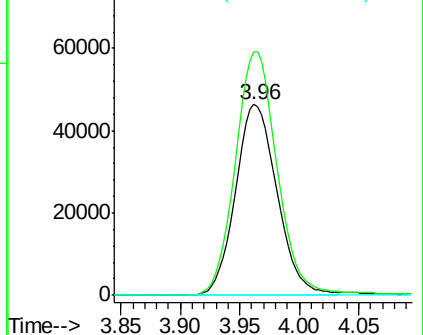
#22

cis-1,2-Dichloroethene  
Concen: 19.832 ug/L  
RT: 3.96 min Scan# 893  
Delta R.T. 0.00 min  
Lab File: VV009462.D  
Acq: 01 Mar 2019 18:24

| Tot Ion | Ion   | Ratio | Lower | Upper |
|---------|-------|-------|-------|-------|
| 96      | 100   |       |       |       |
| 61      | 127.5 | 86.0  | 159.8 |       |
| 68      | 0.0   | 0.0   | 0.0   |       |



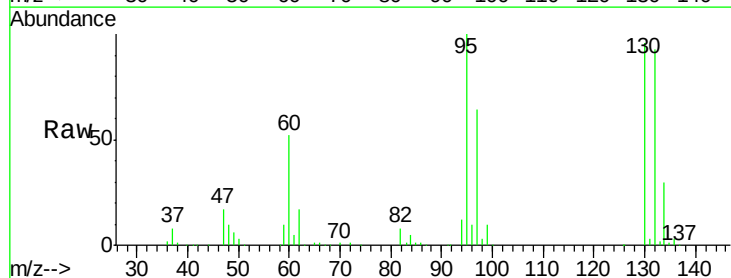
Abundance Ion 96.00 (95.70 to 96.70): VV0  
Ion 61.05 (60.75 to 61.75): VV0  
Ion 68.15 (67.85 to 68.85): VV0



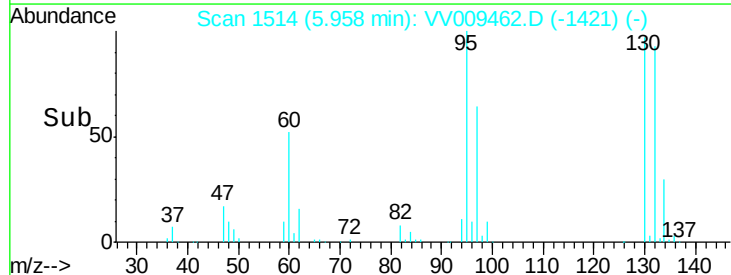
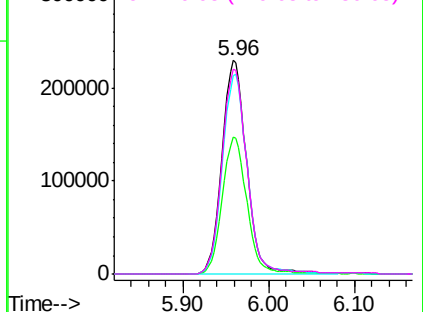
#34

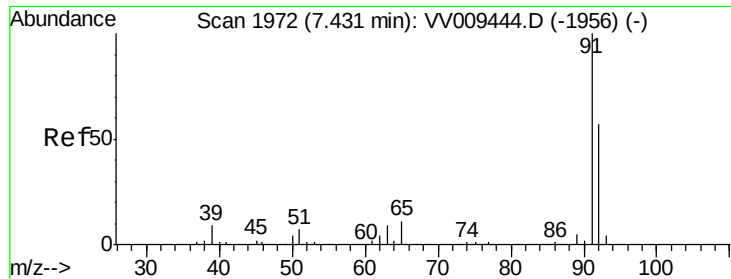
Trichloroethene  
Concen: 74.717 ug/L  
RT: 5.96 min Scan# 1514  
Delta R.T. 0.00 min  
Lab File: VV009462.D  
Acq: 01 Mar 2019 18:24

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 95      | 100  |       |       |       |
| 97      | 64.0 | 44.2  | 82.2  |       |
| 132     | 92.9 | 67.8  | 126.0 |       |
| 130     | 96.0 | 70.4  | 130.8 |       |



Abundance Ion 95.00 (94.70 to 95.70): VV0  
Ion 96.95 (96.65 to 97.65): VV0  
Ion 131.95 (131.65 to 132.65): VV0  
Ion 129.95 (129.65 to 130.65): VV0





#42

Toluene

Concen: 0.702 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV009462.D

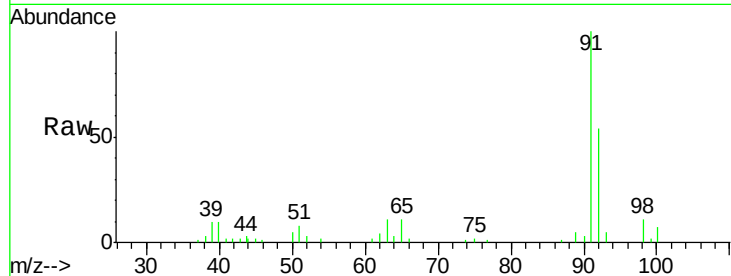
Acq: 01 Mar 2019 18:24

Tot Ion: 91 Resp: 17430

Ion Ratio Lower Upper

91 100

92 54.0 39.8 73.8

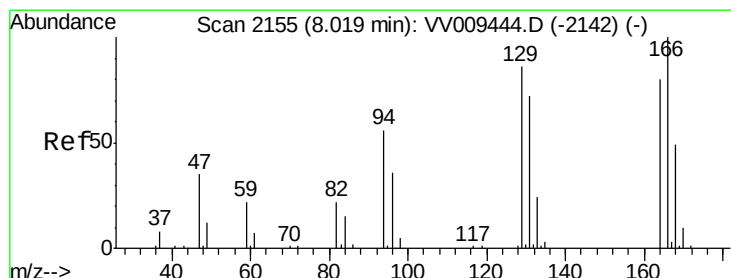
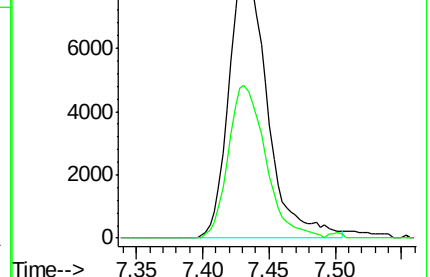
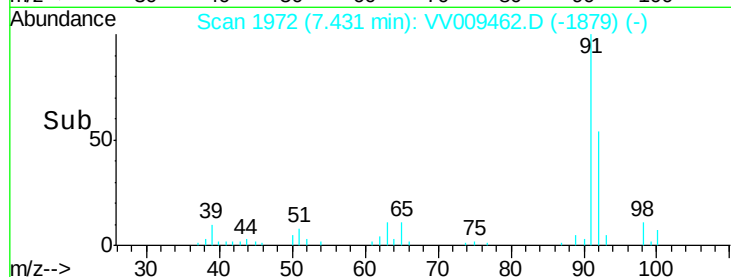


Abundance Ion 91.15 (90.85 to 91.85): VV009444.D (-1956) (-)

Ion 92.15 (91.85 to 92.85): VV009444.D (-1956) (-)

7.43

Time-->



#47

Tetrachloroethene

Concen: 1.982 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV009462.D

Acq: 01 Mar 2019 18:24

Tgt Ion: 164 Resp: 9578

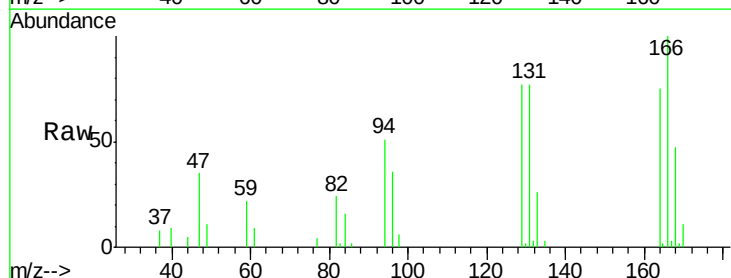
Ion Ratio Lower Upper

164 100

129 103.7 69.3 128.7

131 102.8 64.0 118.8

166 134.0 86.0 159.6



Abundance Ion 163.90 (163.60 to 164.60): VV009444.D (-2142) (-)

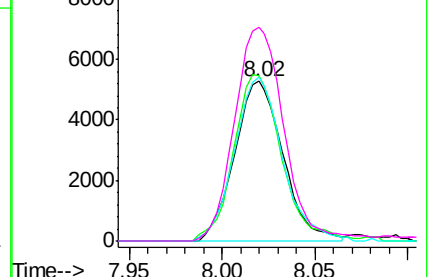
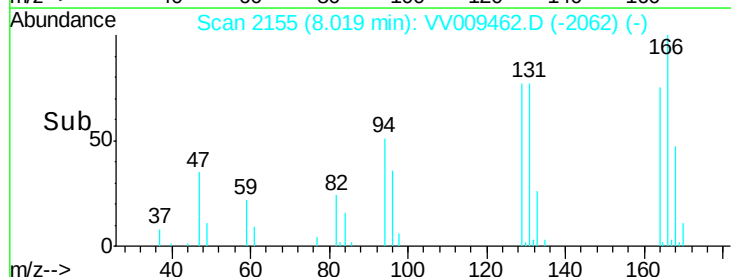
Ion 128.95 (128.65 to 129.65): VV009444.D (-2142) (-)

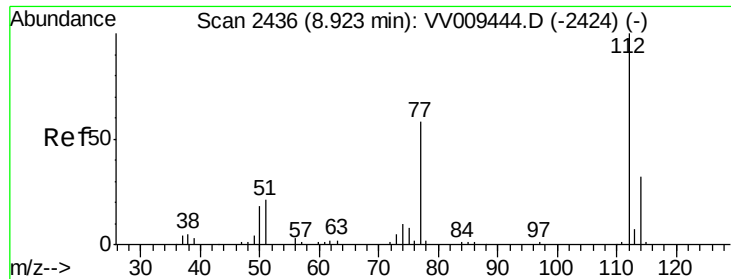
Ion 130.95 (130.65 to 131.65): VV009444.D (-2142) (-)

Ion 165.90 (165.60 to 166.60): VV009444.D (-2142) (-)

8.02

Time-->





#51  
 Chlorobenzene  
 Concen: 0.370 ug/L  
 RT: 8.93 min Scan# 2437  
 Delta R.T. 0.00 min  
 Lab File: VV009462.D  
 Acq: 01 Mar 2019 18:24

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 34.0  | 23.2  | 43.2  |
| 77      | 59.5  | 45.7  | 68.5  |

